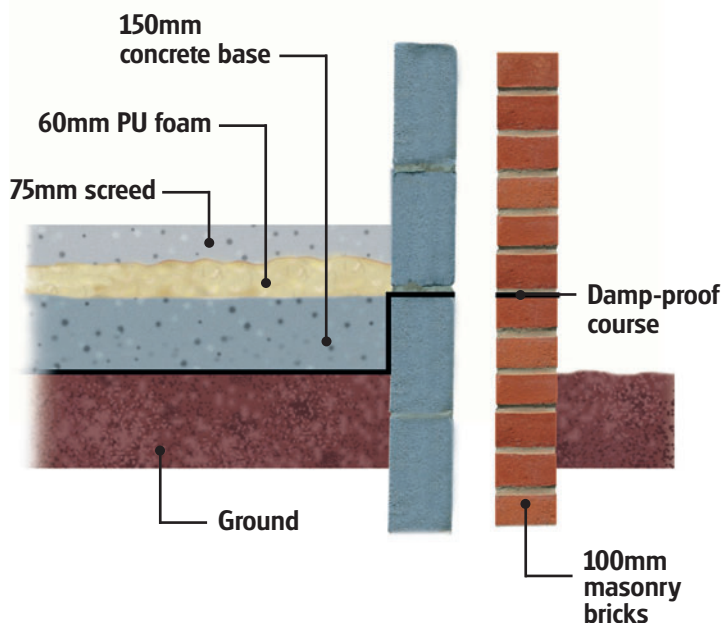


# Concrete ground floor

# Foamseal



## General

<b>Specification:</b>	BBA Certificate 02/3964
<b>Spray applied Foamseal polyurethane foam directly onto concrete</b>	
<b>Average foam depth:</b>	60mm
<b>U-value:</b>	0.20W/m <sup>2</sup> K
<b>Condensation Risk:</b>	Not applicable
<b>Ventilation:</b>	Not applicable
<b>Additional Insulation:</b>	None

Foamseal is applied directly to the concrete. Under-floor heating pipes can be fixed to the foam with the normal clips. A layer of tamped or self-levelling screed is applied, usually to a depth of 75mm. The process is extremely quick to apply compared to other methods and the problems of insulation boards lifting are avoided. Site overhead time and material waste from off-cuts are minimised.

The foam has sufficient compressive strength to withstand foot traffic before the screed is laid. Open cell foams are also available for intermediate floor applications to reduce sound transmission (not currently BBA Certificated)

## U-value Analysis

Construction details Concrete ground floor	Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m <sup>2</sup> K/W)
Inside surface	-	-	0.040
Screed - cast (BS5250)	75.0	1.401	0.054
Foamseal Spray Applied PU foam	60.0	0.020	3.000
Concrete, dense (BS5250)	150.0	1.701	0.088
Ground	-	-	0.170
<b>U-value – 0.20W/m<sup>2</sup>K</b>			

### Ground Floor Details

Calculation method :	EN ISO 13370
Perimeter :	40.00m
Area :	100.00m <sup>2</sup>
P/A :	0.400m
Floor type :	Solid floor
Edge insulation :	None